

ABSTRACT OF THE DISCLOSURE

Disclosed is a configuration method and device for a two-dimensional expandable crossbar matrix switch for application to tera-level high-speed and large-capacity switches. The present invention includes N input ports, N output ports, and an $N \times N$ matrix switch for transmitting cells between the input and output ports. Each input port includes N VOQs which are sequentially combined by n VOQs to configure respective L VOQ groups. The L VOQ groups are connected to L XSUs through independent interface ports. Therefore, each input port can transmit a maximum of L cells to the matrix switch during one cell time slot.